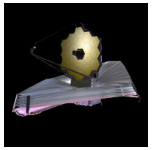

11023 - A NIRSpec Spectroscopic Search for Astrometric Giant Planet Candidates at Solar System–like Scales

Cycle: 5, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
HD 44627				
	1	HD-44627 roll 1	NIRSpec IFU Spectroscopy	(1) HD-44627
HIP 63734				

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
	3	HIP-63734 roll 1	NIRSpec IFU Spectroscopy	(8) HD-113414
HD 14082B				
	5	HD-14082B roll 1	NIRSpec IFU Spectroscopy	(2) HD-14082B
HIP 99273				
	7	HIP-99273 roll 1	NIRSpec IFU Spectroscopy	(5) HD-191089
HIP 88399				
	9	HIP-88399 roll 1	NIRSpec IFU Spectroscopy	(4) HD-164249
HIP 95270				
	17	HIP 95270 roll 1	NIRSpec IFU Spectroscopy	(6) HD-181327
iot Hyi				
	11	iot Hyi roll 1	NIRSpec IFU Spectroscopy	(9) -iot-Hyi
HIP 60074				
	13	HIP 60074 roll 1	NIRSpec IFU Spectroscopy	(3) HD-107146
HIP 30314				
	15	HIP 30314 roll 1	NIRSpec IFU Spectroscopy	(7) HD-45270

ABSTRACT

The JWST/NIRSpec IFU is demonstrating unprecedented sensitivity at small angular separations (<1 arcsec) to the highest-contrast planets (flux ratio~10^-4, ~0.3 arcsec). In the 3-5 um range covered by G395H, giant planets can be spectrally separated from their much brighter host stars, allowing detections of key molecules including CO2, CH4, H2S, CO, and H2O. We propose a NIRSpec survey of nine nearby young stars (<50 pc, ~20-150 Myr) with the most promising astrometric giant planet candidates at ~5-10 AU. These targets are carefully selected and vetted from an original list of 25,000 nearby young stars by performing orbit fits with a comprehensive new astrometry catalog, combining Hipparcos, Gaia DR2, DR3, and Gaia astrometric excess noise. This technique has recovered all six known imaged planets with a<20 au, and we propose to observe and detect nine similarly promising targets. Given an average detection rate of ~45% in 2 hr for each star, this program is designed to detect 3-5 new planets at ~5-10 AU and measure their atmospheric metallicities, significantly expanding the current sample of 2 such planets (AF Lep b, 51 Eri b). These planets bridge the gap between close-in Jupiters (<0.1 au) and wide-separation super-Jupiters (~100 au), providing a key sample to understand the metal enrichment process of giant planets in a previously inaccessible parameter space. With NIRSpec, we can begin probing the atmospheres of the most common giant planets at Jupiter- and Saturn-like separations.

OBSERVING DESCRIPTION

We will use the NIRSpec IFU to search for giant planets around nine nearby young stars. Specifically, we will use the 2.9-5.3 micron filter (F290LP) at moderate resolution (G395H), and leverage the spectral differences between planet and star at R~2700 to detect these high-contrast planets. NIRSpec high-contrast observing strategies and data reduction techniques are well-proven in previous cycles. The stellar speckles at the locations of our planet candidates are the dominant noise source. For each star, we choose groups/int that ensure the speckles >0.2 arcsec do not saturate. This ensures planet detectability at 0.2 arcsec and wider. We use a cycling dither pattern (SMALL) with at least 10 dither positions for each star to mitigate the spatial undersampling of the NIRSpec IFU.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD-44627	RA: 06 19 12.9130 (94.8038042d) Dec: -58 03 15.53 (-58.05431d) Equinox: J2000	Proper Motion RA: 14.314 mas/yr Proper Motion Dec: 45.234 mas/yr Parallax: 0.0199452" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[K stars]
Extended=NO

(2)	HD-14082B	RA: 02 17 24.7369 (34.3530704d) Dec: +28 44 30.41 (28.74178d) Equinox: J2000	Proper Motion RA: 85.879 mas/yr Proper Motion Dec: -71.14200009255 mas/yr Parallax: 0.0252306" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

(3)	HD-107146	RA: 12 19 6.5019 (184.7770912d) Dec: +16 32 53.87 (16.54830d) Equinox: J2000	Proper Motion RA: -174.683 mas/yr Proper Motion Dec: -149.02100008384878 mas/yr Parallax: 0.0364038" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

(4)	HD-164249	RA: 18 03 3.4097 (270.7642071d) Dec: -51 38 56.43 (-51.64901d) Equinox: J2000	Proper Motion RA: 2.33 mas/yr Proper Motion Dec: -86.23100006843742 mas/yr Parallax: 0.020285900000000003" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

(5)	HD-191089	RA: 20 09 5.2156 (302.2717317d)	Proper Motion RA: 40.336 mas/yr
		Dec: -26 13 26.52 (-26.22403d)	Proper Motion Dec: -67.41700005932216 mas/yr
		Equinox: J2000	Parallax: 0.0199573"
			Epoch of Position: 2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

(6)	HD-181327	RA: 19 22 58.9437 (290.7455987d)	Proper Motion RA: 24.403 mas/yr
		Dec: -54 32 16.98 (-54.53805d)	Proper Motion Dec: -82.18600000873266 mas/yr
		Equinox: J2000	Parallax: 0.020930599999999997"
			Epoch of Position: 2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

(7)	HD-45270	RA: 06 22 30.9409 (95.6289204d)	Proper Motion RA: -11.429 mas/yr
		Dec: -60 13 7.15 (-60.21865d)	Proper Motion Dec: 64.681 mas/yr
		Equinox: J2000	Parallax: 0.0418877"
			Epoch of Position: 2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

(8)	HD-113414	RA: 13 03 39.0099 (195.9125413d)	Proper Motion RA: -108.367 mas/yr
		Dec: -16 20 11.67 (-16.33657d)	Proper Motion Dec: -29.299000038918166 mas/yr
		Equinox: J2000	Parallax: 0.0184893"
			Epoch of Position: 2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

(9)	-iot-Hyi	RA: 03 15 57.6657 (48.9902738d)	Proper Motion RA: 113.65800000000002 mas/yr
		Dec: -77 23 18.43 (-77.38845d)	Proper Motion Dec: 62.375 mas/yr
		Equinox: J2000	Parallax: 0.034263800000000004"
			Epoch of Position: 2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Observation

Proposal 11023, Observation 1: HD-44627 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD-44627	RA: 06 19 12.9130 (94.8038042d) Dec: -58 03 15.53 (-58.05431d) Equinox: J2000	Proper Motion RA: 14.314 mas/yr Proper Motion Dec: 45.234 mas/yr Parallax: 0.0199452" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[K stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 3: HIP-63734 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(8)	HD-113414	RA: 13 03 39.0099 (195.9125413d) Dec: -16 20 11.67 (-16.33657d) Equinox: J2000	Proper Motion RA: -108.367 mas/yr Proper Motion Dec: -29.299000038918166 mas/yr Parallax: 0.0184893" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 5: HD-14082B roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	HD-14082B	RA: 02 17 24.7369 (34.3530704d) Dec: +28 44 30.41 (28.74178d) Equinox: J2000	Proper Motion RA: 85.879 mas/yr Proper Motion Dec: -71.14200009255 mas/yr Parallax: 0.0252306" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 7: HIP-99273 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	HD-191089	RA: 20 09 5.2156 (302.2717317d) Dec: -26 13 26.52 (-26.22403d) Equinox: J2000	Proper Motion RA: 40.336 mas/yr Proper Motion Dec: -67.41700005932216 mas/yr Parallax: 0.0199573" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 9: HIP-88399 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	HD-164249	RA: 18 03 3.4097 (270.7642071d) Dec: -51 38 56.43 (-51.64901d) Equinox: J2000	Proper Motion RA: 2.33 mas/yr Proper Motion Dec: -86.23100006843742 mas/yr Parallax: 0.020285900000000003" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 17: HIP 95270 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(6)	HD-181327	RA: 19 22 58.9437 (290.7455987d) Dec: -54 32 16.98 (-54.53805d) Equinox: J2000	Proper Motion RA: 24.403 mas/yr Proper Motion Dec: -82.18600000873266 mas/yr Parallax: 0.020930599999999997" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 11: iot Hyi roll 1 Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(9)	-iot-Hyi	RA: 03 15 57.6657 (48.9902738d) Dec: -77 23 18.43 (-77.38845d) Equinox: J2000	Proper Motion RA: 113.65800000000002 mas/yr Proper Motion Dec: 62.375 mas/yr Parallax: 0.034263800000000004" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[F stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	12	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	2	14	false	true	NONE	12	168	7352.801	

Observation

Proposal 11023, Observation 13: HIP 60074 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	HD-107146	RA: 12 19 6.5019 (184.7770912d) Dec: +16 32 53.87 (16.54830d) Equinox: J2000	Proper Motion RA: -174.683 mas/yr Proper Motion Dec: -149.02100008384878 mas/yr Parallax: 0.0364038" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	4	9	false	true	NONE	11	99	7221.501	

Observation

Proposal 11023, Observation 15: HIP 30314 roll 1

Fri Mar 13 20:04:45 GMT 2026

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	HD-45270	RA: 06 22 30.9409 (95.6289204d) Dec: -60 13 7.15 (-60.21865d) Equinox: J2000	Proper Motion RA: -11.429 mas/yr Proper Motion Dec: 64.681 mas/yr Parallax: 0.0418877" Epoch of Position: 2000	

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=Star
Description=[G stars]
Extended=NO

Template

TA Method	HFF Readout Mode
NONE	false

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	SMALL	1	11	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
1	G395H/F290LP	NRSIRS2RAPID	3	11	false	true	NONE	11	121	7061.023	